

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 07-260913
 (43) Date of publication of application : 13. 10. 1995

(51) Int. Cl. G01R 33/18
 G01R 33/12

(21) Application number : 06-076528 (71) Applicant : IWATSU ELECTRIC CO LTD
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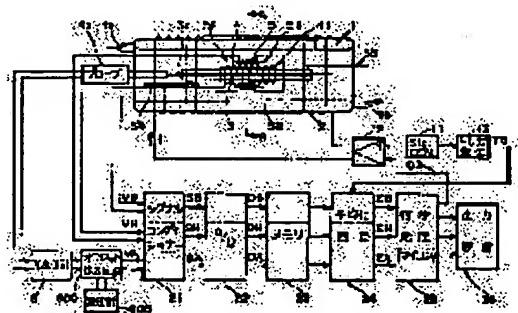
(54) MAGNETIC CHARACTERISTIC MEASURING DEVICE AND MAGNETOSTRICTION MEASURING DEVICE

(57) Abstract:

PURPOSE: To provide a magnetic characteristic measuring device having the capability of measuring a magnetic characteristic in great detail.

CONSTITUTION: A magnetic substance sample 3 is laid within the internal space of a cylindrically wound magnetic field generation coil 2, and sinusoidal current is made to flow to the coil 2, thereby generating sinusoidal alternating magnetic field. Then, magnetostriction generated in the sample 3 due to the sinusoidal magnetic field is directly measured by using a displacement gauge 6. In addition, a magnetic field detection coil 5 is provided within the magnetic field space and the mean value of voltage induced therein is obtained. The averaged value is used as an offset and deducted from voltage applicable to the coil 2.

According to this construction, strain-less sinusoidal magnetic field without any offset can be generated and an accurate magnetic characteristic can be measured.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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